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1 **Multiform glyph based web search result visualization**

Roberts, J.; Boukhelifa, N.; Rodgers, P.;
Information Visualisation, 2002. Proceedings. Sixth International Conference on , 10-12 July 2002
Pages:549 - 554

[\[Abstract\]](#) [\[PDF Full-Text \(406 KB\)\]](#) IEEE CNF

2 **A domain cluster interface for WWW search**

Shimamura, H.; Takano, H.; Kamba, T.; Koseki, Y.;
Database and Expert Systems Applications, 1998. Proceedings. Ninth International Workshop on , 26-28 Aug. 1998
Pages:455 - 460

[\[Abstract\]](#) [\[PDF Full-Text \(108 KB\)\]](#) IEEE CNF

3 **A domain cluster interface for WWW search**

Shimamura, H.; Takano, H.; Kamba, T.; Koseki, Y.;
Computer Human Interaction, 1998. Proceedings. 3rd Asia Pacific , 15-17 July 1998
Pages:318 - 323

[\[Abstract\]](#) [\[PDF Full-Text \(108 KB\)\]](#) IEEE CNF

4 **Searching the Web using a map**

Yates, J.D.; Xiaofang Zhou;
Web Information Systems Engineering, 2000. Proceedings of the First International Conference on , Volume: 1 , 19-21 June 2000
Pages:222 - 229 vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(924 KB\)\]](#) IEEE CNF

5 **Overview of Mondou Web search engine using text mining and**

information visualizing technologies

Kawano, H.;

Digital Libraries: Research and Practice, 2000 Kyoto, International Conference on.
, 13-16 Nov. 2000

Pages:234 - 244

[\[Abstract\]](#) [\[PDF Full-Text \(712 KB\)\]](#) IEEE CNF

6 A metaphor graphics based representation of digital libraries on the World Wide Web: using the libViewer to make metadata visible

Rauber, A.; Bina, H.;

Database and Expert Systems Applications, 1999. Proceedings. Tenth International Workshop on , 1-3 Sept. 1999

Pages:286 - 290

[\[Abstract\]](#) [\[PDF Full-Text \(60 KB\)\]](#) IEEE CNF

7 Navigation of the Internet with spatial databases

Yates, J.D.; Zhou, X.;

Database Applications in Non-Traditional Environments, 1999. (DANTE '99) Proceedings. 1999 International Symposium on , 1999

Pages:121 - 124

[\[Abstract\]](#) [\[PDF Full-Text \(236 KB\)\]](#) IEEE CNF

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Sort by: Title Publication Publication Date Score

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- 1 Visualization: Periscope: a system for adaptive 3D visualization of search results** 100

Wojciech Wiza , Krzysztof Walczak , Wojciech Cellary
Proceedings of the ninth international conference on 3D Web technology April 2004
 A system for efficient 3D visualization of Web search results is presented. The system, called Periscope1, uses a novel approach for adaptive and customizable visualization of complex data. The whole process is divided into a number of interactive steps. At each step, the system can automatically choose the best method of presenting search results. The user can also select a specific presentation method to focus on certain properties of the result obtained. After analyzing the current search res ...
- 2 Information artisans: patterns of result sharing by information searchers** 100

Vicki L. O'Day , Robin Jeffries
Proceedings of the conference on Organizational computing systems December 1993
- 3 WaveLens: a new view onto Internet search results** 100

Tim Paek , Susan Dumais , Ron Logan
Proceedings of the 2004 conference on Human factors in computing systems April 2004
 Internet search results are typically displayed as a list conforming to a static style sheet. The difficulty of perusing this list can be exacerbated when screen real estate is limited. When space is limited, either, few results are seen, or result descriptions are abbreviated, making it difficult to know whether to follow a particular web link. In this paper, we describe "WaveLens," a dynamic layout technique for displaying search results, which addresses these issues by combining a fisheye len ...
- 4 Cross-language information retrieval: Translating unknown queries with web corpora for cross-language information retrieval** 100

Pu-Jen Cheng , Jei-Wen Teng , Ruei-Cheng Chen , Jenq-Haur Wang , Wen-Hsiang Lu , Lee-Feng Chien
Proceedings of the 27th annual international conference on Research and developement in information retrieval July 2004
 It is crucial for cross-language information retrieval (CLIR) systems to deal with the translation of unknown queries due to that real queries might be short. The purpose of this paper is to investigate

the feasibility of exploiting the Web as the corpus source to translate unknown queries for CLIR. We propose an online translation approach to determine effective translations for unknown query terms via mining of bilingual search-result pages obtained from Web search engines. This approach can a ...

5 Late breaking result papers: Search result exploration: a preliminary study of blind and sighted users' decision making and performance 100



Melody Y. Ivory , Shiqing Yu , Kathryn Gronemyer

Extended abstracts of the 2004 conference on Human factors and computing systems April 2004

We conducted a preliminary study to examine sighted and blind users' decision-making behavior and performance during the search process. We manipulated the search result's relevance to a task, the search result presentation, and the effort required to process the corresponding web page. We found that users leveraged page features to gauge the amount of effort that is required to explore search pages and made exploration decisions accordingly. Users' desire to know additional page details varied ...

6 Bringing order to the Web: automatically categorizing search results 100



Hao Chen , Susan Dumais

Proceedings of the SIGCHI conference on Human factors in computing systems April 2000

We developed a user interface that organizes Web search results into hierarchical categories. Text classification algorithms were used to automatically classify arbitrary search results into an existing category structure on-the-fly. A user study compared our new category interface with the typical ranked list interface of search results. The study showed that the category interface is superior both in objective and subjective measures. Subjects liked the category interface much better than t ...

7 Optimizing search by showing results in context 100



Susan Dumais , Edward Cutrell , Hao Chen

Proceedings of the SIGCHI conference on Human factors in computing systems March 2001

We developed and evaluated seven interfaces for integrating semantic category information with Web search results. List interfaces were based on the familiar ranked-listing of search results, sometimes augmented with a category name for each result. Category interfaces also showed page titles and/or category names, but re-organized the search results so that items in the same category were grouped together visually. Our user studies show that all Category interfaces were more effective than ...

8 Web clustering: Evaluating contents-link coupled web page clustering for web search results 100



Yitong Wang , Masaru Kitsuregawa

Proceedings of the eleventh international conference on Information and knowledge management November 2002

Clustering is currently one of the most crucial techniques for dealing (e.g. resources locating, information interpreting) with massive amount of heterogeneous information on the web. Unlike clustering in other fields, web page clustering separates unrelated pages and clusters related pages (to a specific topic) into semantically meaningful groups, which is useful for discrimination, summarization, organization and navigation of unstructured web pages. We have proposed a contents-link coupled cl ...

9 Clustering: Learning to cluster web search results 100



Hua-Jun Zeng , Qi-Cai He , Zheng Chen , Wei-Ying Ma , Jinwen Ma

Proceedings of the 27th annual international conference on Research and development in information retrieval July 2004

Organizing Web search results into clusters facilitates users' quick browsing through search results. Traditional clustering techniques are inadequate since they don't generate clusters with highly readable names. In this paper, we reformalize the clustering problem as a salient phrase ranking

problem. Given a query and the ranked list of documents (typically a list of titles and snippets) returned by a certain Web search engine, our method first extracts and ranks salient phrases as candidate c ...

10 Automatically structured and translated queries: Translating unknown cross-lingual queries in digital libraries using a web-based approach 99%

Jenq-Haur Wang , Jei-Wen Teng , Pu-Jen Cheng , Wen-Hsiang Lu , Lee-Feng Chien

Proceedings of the 2004 joint ACM/IEEE conference on Digital libraries June 2004

Users' cross-lingual queries to a digital library system might be short and not included in a common translation dictionary (unknown terms). In this paper, we investigate the feasibility of exploiting the Web as the corpus source to translate unknown query terms for cross-language information retrieval (CLIR) in digital libraries. We propose a Web-based term translation approach to determine effective translations for unknown query terms by mining bilingual search-result pages obtained from a re ...

11 Query result processing: A hierarchical monothetic document clustering algorithm for summarization and browsing search results 99%

Krishna Kumnamuru , Rohit Lotlikar , Shourya Roy , Karan Singal , Raghu Krishnapuram

Proceedings of the 13th conference on World Wide Web May 2004

Organizing Web search results into a hierarchy of topics and sub-topics facilitates browsing the collection and locating results of interest. In this paper, we propose a new hierarchical monothetic clustering algorithm to build a topic hierarchy for a collection of search results retrieved in response to a query. At every level of the hierarchy, the new algorithm progressively identifies topics in a way that maximizes the coverage while maintaining distinctiveness of the topics. We refer the pro ...

12 Axis-specified search: a fine-grained full-text search method for gathering and structuring excerpts 99%

Yasusi Kanada

Proceedings of the third ACM conference on Digital libraries May 1998

13 Orienteering in an information landscape: how information seekers get from here to there 99%

Vicki L. O'Day , Robin Jeffries

Proceedings of the SIGCHI conference on Human factors in computing systems May 1993

We studied the uses of information search results by regular clients of professional intermediaries. The clients in our study engaged in three different types of searches: (1) monitoring a well-known topic or set of variables over time, (2) following an information-gathering plan suggested by a typical approach to the task at hand, and (3) exploring a topic in an undirected fashion. In most cases, a single search evolved into a series of interconnected searches, usually beginning with a hig ...

14 ScentTrails: Integrating browsing and searching on the Web 98%

Christopher Olston , Ed H. Chi

ACM Transactions on Computer-Human Interaction (TOCHI) September 2003

Volume 10 Issue 3

The two predominant paradigms for finding information on the Web are browsing and keyword searching. While they exhibit complementary advantages, neither paradigm alone is adequate for complex information goals that lend themselves partially to browsing and partially to searching. To integrate browsing and searching smoothly into a single interface, we introduce a novel approach called ScentTrails. Based on the concept of information scent developed in the context of information foraging theory, ...

15 Query result processing: Adaptive web search based on user profile constructed without any effort from users 98%


Kazunari Sugiyama , Kenji Hatano , Masatoshi Yoshikawa

Proceedings of the 13th conference on World Wide Web May 2004

Web search engines help users find useful information on the World Wide Web (WWW). However, when the same query is submitted by different users, typical search engines return the same result regardless of who submitted the query. Generally, each user has different information needs for his/her query. Therefore, the search result should be adapted to users with different information needs. In this paper, we first propose several approaches to adapting search results according to each user's need ...

16 Using the semantic web: Semantic search

98%


 R. Guha , Rob McCool , Eric Miller

Proceedings of the twelfth international conference on World Wide Web May 2003

Activities such as Web Services and the Semantic Web are working to create a web of distributed machine understandable data. In this paper we present an application called 'Semantic Search' which is built on these supporting technologies and is designed to improve traditional web searching. We provide an overview of TAP, the application framework upon which the Semantic Search is built. We describe two implemented Semantic Search systems which, based on the denotation of the search query, augmen ...

17 Novel search environments: Comparison of two approaches to building a vertical search tool: a case study in the nanotechnology domain

98%


 Michael Chau , Hsinchun Chen , Jialun Qin , Yilu Zhou , Yi Qin , Wai-Ki Sung , Daniel McDonald

Proceedings of the second ACM/IEEE-CS joint conference on Digital libraries July 2002

As the Web has been growing exponentially, it has become increasingly difficult to search for desired information. In recent years, many domain-specific (vertical) search tools have been developed to serve the information needs of specific fields. This paper describes two approaches to building a domain-specific search tool. We report our experience in building two different tools in the nanotechnology domain -- (1) a server-side search engine, and (2) a client-side search agent. The designs of ...

18 Image retrieval, users and usability: Human versus machine in the topic distillation task

98%


 Mingfang Wu , Gheorghe Muresan , Alistair McLean , Muh-Chyun (Morris) Tang , Ross Wilkinson , Yuelin Li , Hyuk-Jin Lee , Nicholas J. Belkin

Proceedings of the 27th annual international conference on Research and development in information retrieval July 2004

This paper reports on and discusses a set of user experiments using the TREC 2003 Web interactive track protocol. The focus is on comparing humans and machine algorithms in terms of performance in a topic distillation task. We also investigated the effect of the search results layout in supporting the users' effort. We have demonstrated that machines can perform nearly as well as people on the topic distillation task. Given a system tailored to the task there is significant performance improvement ...

19 Using keyphrases as search result surrogates on small screen devices

97%

 Steve Jones , Matt Jones , Shaleen Deo_andA2


Personal and Ubiquitous Computing February 2004

Volume 8 Issue 1

This paper investigates user interpretation of search result displays on small screen devices. Such devices present interesting design challenges given their limited display capabilities, particularly in relation to screen size. Our aim is to provide users with succinct yet useful representations of search results that allow rapid and accurate decisions to be made about the utility of result documents, yet minimize user actions (such as scrolling), the use of device resources, and the volume of ...

20 Knowledge representation and retrieval: Algorithm for documents ranking: idea and simulation results

97%

 Offer Drori

Proceedings of the 14th international conference on Software engineering and knowledge engineering July 2002

In the framework of a study, which investigated implementation of a model for displaying search results, the possibility of ranking documents that appear in a list of search results was examined. The purpose of this paper is to present the concept of using mutual references between documents as a tool for ranking documents, and to present the findings of a study that investigated the applicability of the concept.

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Search Results for: **[search <and> result <and> mouse <and> over <and> display <and> separate<AND>((search result))]**

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21 DateLens: A fisheye calendar interface for PDAs

77

Benjamin B. Bederson , Aaron Clamage , Mary P. Czerwinski , George G. Robertson

ACM Transactions on Computer-Human Interaction (TOCHI) March 2004

Volume 11 Issue 1

Calendar applications for small handheld devices are growing in popularity. This led us to develop DateLens, a novel calendar interface for PDAs designed to support complex tasks. It uses a fisheye representation coupled with compact overviews to give the big picture in a small space. The interface also gives users control over the visible time period, as well as supporting integrated search to discover patterns and outliers. Designed with device scalability in mind, DateLens currently runs on d ...

22 Filtering and retrieval models: Building a filtering test collection for TREC 2002

77

Ian Soboroff , Stephen Robertson

Proceedings of the 26th annual international ACM SIGIR conference on Research and development in informaion retrieval July 2003

Test collections for the filtering track in TREC have typically used either past sets of relevance judgments, or categorized collections such as Reuters Corpus Volume 1 or OHSUMED, because filtering systems need relevance judgments during the experiment for training and adaptation. For TREC 2002, we constructed an entirely new set of search topics for the Reuters Corpus for measuring filtering systems. Our method for building the topics involved multiple iterations of feedback from assessors, an ...

23 Tools for building digital libraries: Assembling and enriching digital library collections

77


David Bainbridge , John Thompson , Ian H. Witten

Proceedings of the third ACM/IEEE-CS joint conference on Digital libraries May 2003

People who create digital libraries need to gather together the raw material, add metadata as necessary, and design and build new collections. This paper sets out the requirements for these tasks and describes a new tool that supports them interactively, making it easy for users to create their own collections from electronic files of all types. The process involves selecting documents for inclusion, coming up with a suitable metadata set, assigning metadata to each document or group of document ...

24 User interaction: Visualizing and exploring Picasso's world

77


 Carlos Monroy , Richard Furuta , Enrique Mallen

Proceedings of the third ACM/IEEE-CS joint conference on Digital libraries May 2003

We discuss the preliminary use of a visualization tool called Interactive Timeline Viewer (ItLv) in visualizing and exploring a collection of art works by Pablo Ruiz Picasso. Our data set is composed of a subset of the On-line Picasso Project, a significantly-sized on-line art repository of the renowned Spanish artist. We also include a brief discussion about how this visualization tool can help art scholars to study and analyze an artist's life and works.

25 An environment for developing adaptive, multi-device user interfaces

77


 John Grundy , Biao Yang

Proceedings of the Fourth Australian user interface conference on User interfaces 2003 - Volume 18 February 2003

There is a growing demand for the development of multi-device, adaptive user interfaces - interfaces that will run on and adapt to the characteristics of multiple display devices and networks as well as multiple users and user tasks. We describe a design and implementation environment for the development of such interfaces. This tool allows developers to specify their desired interfaces using an abstract set of screen element and layout constructs. It then generates a Java Server Page implementa ...

26 Parallel free-text search on the connection machine system

77

 Craig Stanfill , Brewster Kahle


Communications of the ACM December 1986

Volume 29 Issue 12

A new implementation of free-text search using a new parallel computer—the Connection Machine®—makes possible the application of exhaustive methods not previously feasible for large databases.

27 Section 03: tools: Simplifying video editing using metadata

77


 Juan Casares , A. Chris Long , Brad A. Myers , Rishi Bhatnagar , Scott M. Stevens , Laura Dabbish , Dan Yocum , Albert Corbett

Proceedings of the conference on Designing interactive systems: processes, practices, methods, and techniques June 2002

Digital video is becoming increasingly ubiquitous. However, editing video remains difficult for several reasons: it is a time-based medium, it has dual tracks of audio and video, and current tools force users to work at the smallest level of detail. Based on interviews with professional video editors, we developed a video editor, called Silver, that uses metadata to make digital video editing more accessible to novices. To help users visualize video, Silver provides multiple views with different ...

28 Integrated information retrieval in a knowledge worker support system

77

 G. McAlpine , P. Ingwersen


ACM SIGIR Forum , Proceedings of the 12th annual international ACM SIGIR conference on Research and development in information retrieval May 1989

Volume 23 Issue 1-2

This paper describes the design of the information retrieval facilities of an integrated information system called EUROMATH. EUROMATH is an example of a Knowledge Worker Support System: it has been designed specifically to support mathematicians in their research work. EUROMATH is required to provide uniform retrieval facilities for searching in a user's personal data, in a shared database of structured documents and in public, bibliographic databases. The ...

29 ObjectGlobe: Ubiquitous query processing on the Internet

77

 R. Braumandl , M. Keidl , A. Kemper , D. Kossmann , A. Kreutz , S. Seltzsam , K. Stocker

The VLDB Journal — The International Journal on Very Large Data Bases August 2001


Volume 10 Issue 1

We present the design of ObjectGlobe, a distributed and open query processor for Internet data sources. Today, data is published on the Internet via Web servers which have, if at all, very localized query processing capabilities. The goal of the ObjectGlobe project is to establish an open marketplace

in which *data* and *query processing capabilities* can be distributed and used by any kind of Internet application. Furthermore, ObjectGlobe integrates *cycle providers* (i.e., machi ...

30 Intelligent support for interface systems

77

-  F. N. Teskey
Proceedings of the 11th annual international ACM SIGIR conference on Research and development in information retrieval May 1988

This paper describes how a language for building interfaces to information systems, that is being developed by the Office of Research at OCLC, can be linked to an artificial intelligence environment, Poplog. A demonstration system, showing how Poplog could provide some intelligent support for a D interface, has been developed. It is suggested that this could form the basis for intelligent support for interface systems.

31 Best Paper: Early experiences with a 3D model search engine


77

-  Patrick Min , John A. Halderman , Michael Kazhdan , Thomas A. Funkhouser
Proceeding of the eighth international conference on 3D Web technology March 2003

New acquisition and modeling tools make it easier to create 3D models, and affordable and powerful graphics hardware makes it easier to use them. As a result, the number of 3D models available on the web is increasing rapidly. However, it is still not as easy to find 3D models as it is to find, for example, text documents and images. What is needed is a "3D model search engine," a specialized search engine that targets 3D models. We created a prototype 3D model search engine to investigate the d ...

32 Accepted Posters: EduNuggets: an intelligent environment for managing and delivering multimedia education content


77

-  Eleni Stroulia , Kavita Jari
Proceedings of the 8th international conference on Intelligent user interfaces January 2003

Today's teaching and learning practices are evolving to leverage the continuously increasing information available on the web, on all conceivable subject matters. This wealth of information presents a great challenge: how to provide an integrated, authoritative, extendible and shareable information collection of related multimedia education materials. In this paper, we describe EduNuggets (<http://www.cs.ualberta.ca/~stroulia/EduNuggets>), our intelligent repository for multimedia educational mater ...

33 Live documents with contextual, data-driven information components


77

-  Anke Weber , Holger M. Kienle , Hausi A. Müller
Proceedings of the 20th annual international conference on Computer documentation October 2002







We introduce the notion of a live document and we describe our concept of live documents with contextual, data driven information components. The dynamic and interactive features of live documents provide a consistent data source for multimedia presentations targeted to various audiences and multiple platforms. Therefore, they contribute to the solution of key challenges in single sourcing and repurposing. We motivate the use of live documents with sample scenarios from the field of systems docu ...

34 Web search 2: Using micro information units for internet search

77

-  Xiaoli Li , Tong-Heng Phang , Mingqing Hu , Bing Liu
Proceedings of the eleventh international conference on Information and knowledge management November 2002

Internet search is one of the most important applications of the Web. A search engine takes the user's keywords to retrieve and to rank those pages that contain the keywords. One shortcoming of existing search techniques is that they do not give due consideration to the micro-structures of a Web page. A Web page is often populated with a number of small information units, which we call *micro information units* (MIU). Each unit focuses on a specific topic and occupies a specific area of the ...

- 35 QSketcher: an environment for composing music for film** 77
 Steven Abrams , Ralph Bellofatto , Robert Fuhrer , Daniel Oppenheim , James Wright , Richard Boulanger , Neil Leonard , David Mash , Michael Rendish , Joe Smith
Proceedings of the fourth conference on Creativity & cognition October 2002
 We describe QSketcher, a new environment for composing music for film. The main focus is the support of early stages of the creative workflow, from idea conception through realization, rather than the order and synchronization of musical fragments with film. This paper describes the design process and rationale, the system, the user environment, and how they relate to one another. Novel aspects of the system include a free-form 'idea space', a main workspace that can be configured to individual ...
- 36 Video and multimedia digital libraries: A multilingual, multimodal digital video library system** 77
 Michael R. Lyu , Edward Yau , Sam Sze
Proceedings of the second ACM/IEEE-CS joint conference on Digital libraries July 2002
 This paper presents the iVIEW system, a multi-lingual, multi-modal digital video content management system for intelligent searching and access of English and Chinese video contents. iVIEW allows full content indexing, searching and retrieval of multi-lingual text, audio and video material. It consists image processing techniques for scenes and scene changes analyses, speech processing techniques for audio signal transcriptions, and multi-lingual natural language processing techniques for word r ...
- 37 Summarization and question answering: Using librarian techniques in automatic text summarization for information retrieval** 77
 Min-Yen Kan , Judith L. Klavans
Proceedings of the second ACM/IEEE-CS joint conference on Digital libraries July 2002
 A current application of automatic text summarization is to provide an overview of relevant documents coming from an information retrieval (IR) system. This paper examines how Centrifuser, one such summarization system, was designed with respect to methods used in the library community. We have reviewed these librarian expert techniques to assist information seekers and codified them into eight distinct strategies. We detail how we have operationalized six of these strategies in Centrifuser by c ...
- 38 Multimedia and visualization: Dynamic structuring of web information for access visualization** 77
 Jess Y. S. Mak , Hong Va Leong , Alvin T. S. Chan
Proceedings of the 2002 ACM symposium on Applied computing March 2002
 The Internet has led to the formation of a global information infrastructure. To explore a web site, a site map would be useful as a short cut for a user to locate for the target information in a structured and efficient manner, rather than drilling into the web site following hyperlinks, reading possibly irrelevant information. Useless information impacts a mobile web environment, where mobile clients are only connected with unreliable wireless channels of limited bandwidth. Structured web page ...
- 39 Demonstrations: Video browsing interfaces for the open video project** 77
 Gary Geisler , Gary Marchionini , Barbara M. Wildemuth , Anthony Hughes , Meng Yang , Todd Wilkens , Richard Spinks
CHI '02 extended abstracts on Human factors in computing systems April 2002
 The Open Video Project is an on-going effort to develop an open source digital video collection that can be used by the research community and ultimately serve an even broader audience. The initial collection contains video or metadata for more than 1600 digitized video segments comprising nearly half a terabyte of content. Our primary goals for this project are to provide free digital video content to people doing a wide variety of research, to develop a collaborative research environment for p ...
- 40 Spoken dialogue technology: enabling the conversational user interface** 77
 **ACM Computing Surveys (CSUR)** March 2002
 Volume 34 Issue 1
 Spoken dialogue systems allow users to interact with computer-based applications such as databases

and expert systems by using natural spoken language. The origins of spoken dialogue systems can be traced back to Artificial Intelligence research in the 1950s concerned with developing conversational interfaces. However, it is only within the last decade or so, with major advances in speech technology, that large-scale working systems have been developed and, in some cases, introduced into commerc ...

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41 Visualizing Patterns: Polyarchy visualization: visualizing multiple intersecting hierarchies

77

George Robertson , Kim Cameron , Mary Czerwinski , Daniel Robbins

Proceedings of the SIGCHI conference on Human factors in computing systems: Changing our world, changing ourselves April 2002

We describe a new information structure composed of multiple intersecting hierarchies, which we call Polyarchies. Visualizing polyarchies enables use of novel views for discovery of relationships which are very difficult using existing hierarchy visualization tools. This paper will describe the visualization design and system architecture challenges as well as our current solutions. A Mid-Tier Cache architecture is used as a "polyarchy server" which supports a novel web-based polyarchy visualiza ...

42 Innovative Document Systems: The multivalent browser: a platform for new ideas

77

Thomas A. Phelps , Robert Wilensky

Proceedings of the 2001 ACM Symposium on Document engineering November 2001

The Multivalent Browser is built on a architecture that separates functionality from concrete document format. Almost all functionality is made available via relatively small modules of code called behaviors that programmers can write to extend the core system. Behaviors can be as significant and powerful as parser-renderers for scanned paper, HTML, or TeX DVI; as fine-grained as hyperlinks, cookies, and the disabling of menu items; and as innovative or uncommon as in situ annotatins, "lenses", ...







43 Session 6: The social web cockpit: support for virtual communities

77

Wolfgang Gräther , Wolfgang Prinz

Proceedings of the 2001 International ACM SIGGROUP Conference on Supporting Group Work September 2001

This paper describes the design and functionality of the Social Web Cockpit, an assistant that supports users while traversing the World Wide Web. The cockpit provides social awareness and supports collaboration, notification of interesting Web pages, collaborative construction of community knowledge, and the development of a community vocabulary. The cockpit aims at turning the World Wide Web from an interaction medium into a cooperation tool, for the active support and self-organization of vir ...


- 44** Session 3: Demonstrational customization of a shared whiteboard to support user-defined semantic relationships among objects 77
 Du Li , Jason Patrao
Proceedings of the 2001 International ACM SIGGROUP Conference on Supporting Group Work
September 2001
As a promising approach to end-user computing, programming by demonstration (PBD) techniques have been explored by many researchers in single-user applications. This paper investigates how PBD techniques can be used to support end-user customization of groupware tools. In collaborative applications, complex semantic relationships can emerge unanticipatedly among objects (participants, data artifacts, tools, devices, etc.) such as the hierarchical organization of participants, consistency mainten ...
- 45** Expression cloning 77
 Jun-yong Noh , Ulrich Neumann
Proceedings of the 28th annual conference on Computer graphics and interactive techniques
August 2001
We present a novel approach to producing facial expression animations for new models. Instead of creating new facial animations from scratch for each new model created, we take advantage of existing animation data in the form of vertex motion vectors. Our method allows animations created by any tools or methods to be easily retargeted to new models. We call this process *expression cloning* and it provides a new alternative for creating facial animations for character models.
Expression ...
- 46** Designing a digital library for young children 77
 Allison Druin , Benjamin B. Bederson , Juan Pablo Hourcade , Lisa Sherman , Glenda Revelle , Michele Platner , Stacy Weng
Proceedings of the first ACM/IEEE-CS joint conference on Digital libraries January 2001
As more information resources become accessible using computers, our digital interfaces to those resources need to be appropriate for all people. However when it comes to digital libraries, the interfaces have typically been designed for older children or adults. Therefore, we have begun to develop a digital library interface developmentally appropriate for young children (ages 5-10 years old). Our prototype system we now call SearchKids offers a graphical interface for querying, browsin ...
- 47** An interface for melody input 77
 Lutz Prechelt , Rainer Typke
ACM Transactions on Computer-Human Interaction (TOCHI) June 2001
Volume 8 Issue 2
We present a software system, called Tunserver, which recognizes a musical tune whistled by the user, finds it in a database, and returns its name, composer, and other information. Such a service is useful for track retrieval at radio stations, music stores, etc., and is also a step toward the long-term goal of communicating with a computer much like one would with a human being. Tuneserver is implemented as a public Java-based WWW service with a database of approximately 10,000 motifs.
Tun ...
- 48** Electronic commerce: a half-empty glass? 77
 Sasa Dekleva
Communications of the AIS June 2000
- 49** 3D or not 3D?: evaluating the effect of the third dimension in a document management system 77
 Andy Cockburn , Bruce McKenzie
Proceedings of the SIGCHI conference on Human factors in computing systems March 2001

Several recent research systems have provided interactive three-dimensional (3D) visualisations for supporting everyday work such as file and document management. But what improvements do these 3D interfaces offer over their traditional 2D counterparts? This paper describes the comparative evaluation of two document management systems that differ only in the number of dimensions used for displaying and interacting with the data. The 3D system is heavily based on Robertson et al.'s Data Moun ...

50 FORMANAGER: an office forms management system 77

 S. Bing Yao , Alan R. Hevner , Zhongzhi Shi , Dawei Luo
ACM Transactions on Information Systems (TOIS) August 1984
Volume 2 Issue 3

51 Information retrieval on the web 77


 Mei Kobayashi , Koichi Takeda
ACM Computing Surveys (CSUR) June 2000
Volume 32 Issue 2

In this paper we review studies of the growth of the Internet and technologies that are useful for information search and retrieval on the Web. We present data on the Internet from several different sources, e.g., current as well as projected number of users, hosts, and Web sites. Although numerical figures vary, overall trends cited by the sources are consistent and point to exponential growth in the past and in the coming decade. Hence it is not surprising that about 85% of Internet user ...


52 A comparative usability evaluation of user interfaces for online product catalog 77

 Ewa Callahan , Jürgen Koenemann
Proceedings of the 2nd ACM conference on Electronic commerce October 2000


53 Textual bloopers: an excerpt from GUI bloopers 77

 Jeff Johnson
interactions September 2000
Volume 7 Issue 5


54 Patron-augmented digital libraries 77

 Dion Goh , John Leggett
Proceedings of the fifth ACM conference on Digital libraries June 2000
Digital library research is mostly focused on the generation of large collections of multimedia resources and state-of-the-art tools for their indexing and retrieval. However, digital libraries should provide more than advanced collection maintenance and retrieval services since the ultimate goal of any (academic) library is to serve the scholarly needs of its users. This paper begins by presenting a case for digital scholarship in which patrons perform all scholarly work electronically. A ...

55 Multivalent documents 77

 Thomas A. Phelps , Robert Wilensky
Communications of the ACM June 2000
Volume 43 Issue 6

56 Structured translation for cross-language information retrieval 77

 Ruth Sperer , Douglas W. Oard
Proceedings of the 23rd annual international ACM SIGIR conference on Research and development in information retrieval July 2000

The paper introduces a query translation model that reflects the structure of the cross-language information retrieval task. The model is based on a structured bilingual dictionary in which the translations of each term are clustered into groups with distinct meanings. Query translation is modeled as a two-stage process, with the system first determining the intended meaning of a query

term and then selecting translations appropriate to that meaning that might appear in the document collectio ...

57 Bringing order to the Web: automatically categorizing search results


77

 Hao Chen , Susan Dumais
Proceedings of the SIGCHI conference on Human factors in computing systems April 2000

We developed a user interface that organizes Web search results into hierarchical categories. Text classification algorithms were used to automatically classify arbitrary search results into an existing category structure on-the-fly. A user study compared our new category interface with the typical ranked list interface of search results. The study showed that the category interface is superior both in objective and subjective measures. Subjects liked the category interface much better than t ...

58 The architecture of static hypertexts

77

 Tim Oren
Proceeding of the ACM conference on Hypertext November 1987

This paper's purpose is to describe how the hypertext technique can make CD-ROM (and other static storage media) a more comfortable environment for human use. I begin by considering implementation issues for hypertext on CD-ROM and surveying currently available products. I suggest desirable goals for the use of hypertext on the static CD medium, and propose that their achievement will follow from a correct choice of conventions of use and construction of the hypertext database. Such ...

59 User preferences when searching individual and integrated full-text databases

77



 Soyeon Park
Proceedings of the fourth ACM conference on Digital libraries August 1999

60 Visual MeSH

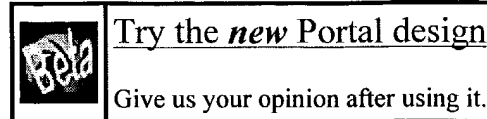
77

 Xia Lin
Proceedings of the 22nd annual international ACM SIGIR conference on Research and development in information retrieval August 1999

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- 61** The paraphrase search assistant: terminological feedback for iterative information seeking 77

 Peter G. Anick , Suresh Tipirneni


Proceedings of the 22nd annual international ACM SIGIR conference on Research and development in information retrieval August 1999
- 62** Visualization of search results: a comparative evaluation of text, 2D, and 3D interfaces 77

 Marc M. Sebrechts , John V. Cugini , Sharon J. Laskowski , Joanna Vasilakis , Michael S. Miller

Proceedings of the 22nd annual international ACM SIGIR conference on Research and development in information retrieval August 1999
- 63** Visualizing implicit queries for information management and retrieval 77

 Mary Czerwinski , Susan Dumais , George Robertson , Susan Dziadosz , Scott Tiernan , Maarten van Dantzich











Proceedings of the SIGCHI conference on Human factors in computing systems: the CHI is the limit May 1999
- 64** Constructing, organizing, and visualizing collections of topically related Web resources 77







 Loren Terveen , Will Hill , Brian Amento

ACM Transactions on Computer-Human Interaction (TOCHI) March 1999



Volume 6 Issue 1

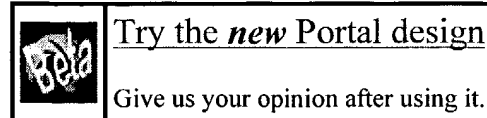
For many purposes, the Web page is too small a unit of interaction and analysis. Web sites are structured multimedia documents consisting of many pages, and users often are interested in obtaining and evaluating entire collections of topically related sites. Once such a collection is obtained, users face the challenge of exploring, comprehending and organizing the items. We report four innovations that address these user needs: (1) we replaced the Web page with the Web site

- 65** A cognitive model for searching for III-defined targets on the Web: the relationship between search strategies and user satisfaction 77
 Mari Saito , Kazunori Ohmura
Proceedings of the 21st annual international ACM SIGIR conference on Research and development in information retrieval August 1998
- 66** Graphical query specification and dynamic result previews for a digital library 77
 Steve Jones
Proceedings of the 11th annual ACM symposium on User interface software and technology November 1998
- 67** Global digital museum: multimedia information access and creation on the Internet 77
 Junichi Takahashi , Takayuki Kushida , Jung-Kook Hong , Shigeharu Sugita , Yasuyuki Kurita , Robert Rieger , Wendy Martin , Geri Gay , John Reeve , Rowena Loverance
Proceedings of the third ACM conference on Digital libraries May 1998
- 68** Digital library information appliances 77
 Bill N. Schilit , Morgan N. Price , Gene Golovchinsky
Proceedings of the third ACM conference on Digital libraries May 1998
- 69** From latent semantics to spatial hypertext—an integrated approach 77
 Chaomei Chen , Mary Czerwinski
Proceedings of the ninth ACM conference on Hypertext and hypermedia : links, objects, time and space---structure in hypermedia systems: links, objects, time and space---structure in hypermedia systems May 1998
- 70** MAPA: a system for inducing and visualizing hierarchy in Websites 77
 David Durand , Paul Kahn
Proceedings of the ninth ACM conference on Hypertext and hypermedia : links, objects, time and space---structure in hypermedia systems: links, objects, time and space---structure in hypermedia systems May 1998
- 71** Linking by inking: trailblazing in a paper-like hypertext 77
 Morgan N. Price , Gene Golovchinsky , Bill N. Schilit
Proceedings of the ninth ACM conference on Hypertext and hypermedia : links, objects, time and space---structure in hypermedia systems: links, objects, time and space---structure in hypermedia systems May 1998
- 72** What the query told the link: the integration of hypertext and information retrieval 77
 Gene Golovchinsky
Proceedings of the eighth ACM conference on Hypertext April 1997
- 73** A distributed, graphical, topic-oriented document search system 77
 John Light
Proceedings of the sixth international conference on Information and knowledge management January 1997
- 74** Information archiving with bookmarks: personal Web space construction and organization 77
 David Abrams , Ron Baecker , Mark Chignell
Proceedings of the SIGCHI conference on Human factors in computing systems January 1998

- 75** Queries? Links? Is there a difference? 77
 Gene Golovchinsky
Proceedings of the SIGCHI conference on Human factors in computing systems March 1997
- 76** Lessons on converting batch systems to support interaction: experience report 77
 Robert DeLine , Gregory Zelesnik , Mary Shaw
Proceedings of the 19th international conference on Software engineering May 1997
- 77** A common architecture for different text processing techniques in an information 77
 retrieval environment
G. Thurmair
Proceedings of the 9th annual international ACM SIGIR conference on Research and development in information retrieval September 1986
The following paper gives an overview on a text processing software called REALIST (Retrieval Aids by Linguistics and Statistics) which integrates different text processing techniques into a common surface. It supports the user by offering the environment of a given term, using morphological, syntactic and statistic means. The user can call up the processing results, use it for indexing, classification or retrieval purposes and combine them as he wishes e.g. to set up a search logic. The te ...
- 78** Dual device user interface design: PDAs and interactive television 77
 Scott Robertson , Cathleen Wharton , Catherine Ashworth , Marita Franzke
Proceedings of the SIGCHI conference on Human factors in computing systems: common ground April 1996
- 79** Generating Web-based presentations in spatial hypertext 77
 Frank M. Shipman , Richard Furuta , Catherine C. Marshall
Proceedings of the 2nd international conference on Intelligent user interfaces January 1997
- 80** Using GOMS for user interface design and evaluation: which technique? 77
 Bonnie E. John , David E. Kieras
ACM Transactions on Computer-Human Interaction (TOCHI) December 1996
Volume 3 Issue 4
Since the seminal book, The Psychology of Human-Computer Interaction, the GOMS model has been one of the few widely known theoretical concepts in human-computer interaction. This concept has spawned much research to verify and extend the original work and has been used in real-world design and evaluation situations. This article synthesizes the previous work on GOMS to provide an integrated view of GOMS models and how they can be used in design. We briefly describe the majo ...

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Proceedings of the the seventh ACM conference on Hypertext March 1996 | |
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| 82 | Evaluation of a tool for visualization of information retrieval results | 77 |
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Proceedings of the 19th annual international ACM SIGIR conference on Research and development in information retrieval August 1996 | |
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| 83 | Browsing and querying in online documentation: a study of user interfaces and the interaction process | 77 |
|  | Morten Hertzum , Erik Frøj?j?
ACM Transactions on Computer-Human Interaction (TOCHI) June 1996
Volume 3 Issue 2
A user interface study concerning the usage effectiveness of selected retrieval modes was conducted using an experimental text retrieval system, TeSS, giving access to online documentation of certain programming tools. Four modes of TeSS were compared: (1) browsing, (2) conventional boolean retrieval, (3) boolean retrieval based on Venn diagrams, and (4) these three combined. Further, the modes of TeSS were compared to the use of printed manuals. The subjects observed were 87 computing new ... | |
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| 84 | Creating a CD-ROM from scratch: a case study | 77 |
|  | Brian J. Thomas
Proceedings of the 12th annual international conference on Systems documentation: technical communications at the great divide October 1994
Technology has moved us to the point where creating a CD-ROM as an alternative to paper volumes is not only cost effective, but also provides an opportunity to add significant value to the information presented, both in terms of quantity and usefulness. The past year has been a pivotal one in terms of access to simple and cost-effective tools and technologies that push "personal publishing" of CD-ROMs closer to reality for a whole range of publishers and information providers. T ... | |

85 Rich interaction in the digital library

77

 Ramana Rao , Jan O. Pedersen , Marti A. Hearst , Jock D. Mackinlay , Stuart K. Card , Larry Masinter , Per-Kristian Halvorsen , George C. Robertson


Communications of the ACM April 1995

Volume 38 Issue 4

Effective information access involves rich interactions between users and information residing in diverse locations. Users seek and retrieve information from the sources—for example, file serves, databases, and digital libraries—and use various tools to browse, manipulate, reuse, and generally process the information. We have developed a number of techniques that support various aspects of the process of user/information interaction. These techniques can be considered attempts t ...

86 Visualization using timelines

77


 Gerald M. Karam

Proceedings of the 1994 ACM SIGSOFT international symposium on Software testing and analysis August 1994

A timeline is a linear, graphical visualization of events over time. For example, in concurrent application, events would represent state changes for some system object (such as a task or variable). A timeline display generator creates the graphical visualization from some record of events. This paper reports on a model for timeline display generators based on a formal model of event history and the objectives of timeline visualization. In this model, any timeline display generator is compl ...

87 Monitoring user actions in the hypertext system "HyperMan"

77


 A. Myka , U. Güntzer , F. Sarre

Proceedings of the 10th annual international conference on Systems documentation November 1992

The hypertext system "HyperMan" provides for an automatic conversion of linear machine-readable documents into hypertexts by applying text partitioning and link generation methods. After completion of the generation process, the graphical user interface of the system enables users to browse through the converted documents very easily. To determine whether user actions allow conclusions to be drawn about a generated hypertext, a special component that records user actions h ...

88 The CORE electronic chemistry library


77

 Michael Lesk

Proceedings of the 14th annual international ACM SIGIR conference on Research and development in information retrieval September 1991

89 Methodological considerations: The impact of participation in information system

77

 design: a comparison of contextual placements

Magnus Irestig , Henrik Eriksson , Toomas Timpka

Proceedings of the eighth conference on Participatory design: Artful integration: interweaving media, materials and practices - Volume 1 July 2004

To compare the outcomes of participatory and user-centered contextual design, case study methods and the Activity Checklist derived from Activity Theory are used to analyze two system prototypes developed in the same organizational setting. Systematic differences between the prototypes are identified regarding focus on tool, organization, individual, and relation to current power structures and organizational practices. The resulting participatory design prototype reflected a sharper focus on co ...

